WITH THE COMPLIMENTS OF THE
MEDICAL OFFICER OF HEALTH.

Newcastle

1894.

RIVER TYNE PORT SANITARY AUTHORITY.

# ANNUAL REPORT

OF THE

# MEDICAL OFFICER OF HEALTH.

[illegible]

Walmer
March 6th
1896.

Dear Sir

Enclosed is a copy of my return as medical Officer of Health of the Urban Division of the Walmer Sanitary district as you request —

Yours faithfully
R S Davey

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**1894.**

# RIVER TYNE PORT SANITARY AUTHORITY.

CONSTITUTED BY LOCAL GOVERNMENT BOARD'S PROVISIONAL ORDER, CONFIRMED BY ACT OF PARLIAMENT (45 & 46 Vict. ch. lxiv.)

ELECTED BY THE CORPORATION OF NEWCASTLE:

ALDERMAN WILLIAM OWEN.
ALDERMAN THOMAS BURGESS WINTER.
ALDERMAN WILLIAM DAVIES STEPHENS *(Vice-Chairman).*
COUNCILLOR WILLIAM EDWARD KIRBY.
COUNCILLOR GEORGE CHRISTOPHER COATES.
DR. ADAM WILSON.

ELECTED BY THE CORPORATION OF GATESHEAD:

ALDERMAN EDWARD SMITH HINDMARSH.
DR. JOHN TODD.

ELECTED BY THE CORPORATION OF TYNEMOUTH:

ALDERMAN JOHN FOSTER SPENCE *(Chairman)*
ALDERMAN JOSEPH GREEN.

ELECTED BY THE CORPORATION OF SOUTH SHIELDS:

DR. THOMAS MICHAEL YOUNG.
COUNCILLOR THOMAS DUNN MARSHALL.

ELECTED BY THE CORPORATION OF JARROW:

ALDERMAN RICHARD HANDYSIDE.

ELECTED BY LOCAL BOARDS ON THE NORTH BANK OF THE RIVER TYNE:

COLONEL THOMAS CRAWFORD.

ELECTED BY LOCAL BOARDS ON THE SOUTH BANK OF THE RIVER TYNE:

COLONEL ALFRED SEPTIMUS PALMER.

## OFFICERS:

| | |
|---|---|
| Medical Officer of Health ... ... ... | HENRY E. ARMSTRONG, D.HY. |
| Assistant Medical Officer of Health ... | JOSEPH F. ARMSTRONG, M.D. |
| Clerk... ... ... ... ... ... | R. SHERITON HOLMES. |
| Treasurer ... ... ... ... ... | JOHN J. PACE. |
| Inspector of Nuisances ... ... ... | CHARLES IRVIN. |

Offices: Town Hall, Newcastle-upon-Tyne. Inspector's Station: Mill Dam, South Shields.

# River Tyne Port Sanitary Authority.

Health Department, Town Hall,

Newcastle-upon-Tyne,

*18th January, 1895.*

Mr. Ald. John Foster Spence, J.P.,

Chairman of the River Tyne Port Sanitary Authority,

Sir,

I have the honour to present herewith my Annual Report for the year 1894.

I am, Sir,

Your obedient Servant,

HENRY E. ARMSTRONG, D.Hy.,

*Medical Officer of Health.*

# RIVER TYNE PORT SANITARY AUTHORITY.

## Report of the Medical Officer of Health for the Year ended 31st December, 1894.

### Infectious Disease in the Port.

During the year nine patients have been admitted to the Floating Hospital, as compared with a total of twenty-six in the previous year.

Particulars as to the cases and their issue are given in Appendix A.

23 Vessels have been visited by the Medical Officer of Health or his Assistant, on account of reported or suspected cases of sickness on board. Of these, nine were removed to the Floating Hospital as Infectious (see Appendix A). In the remainder the disease was not infectious.

### Disease reported on Shipboard during voyage, on arrival, or whilst in the River Tyne Port, during the year 1894.

### SMALLPOX.

| Date of Arrival. | NAME OF SHIP. | From. | No. of cases of Disease. On Voyage. | No. of cases of Disease. On or after Arrival. | REMARKS. | Notes on Arrival in the Tyne. |
|---|---|---|---|---|---|---|
| Jan. 9 | s.s. "Robt. Harrowing" | Odessa and Copenhagen. | 1 | ... | Case removed at Constantinople (fatal). | All well. Vessel and effects re-disinfected in Tyne. |
| Feb. 27 | s.s. "Tantallon" ... | Marseilles and Rio Marino. | 3 | ... | 1 case at Marseilles, 2 cases at Gibraltar. | All well. |
| April 10 | s.s. "Elstia" ... ... | Bombay & Havre | 1 | .. | Case on Voyage ... ... | ,, |
| May 8 | s.s. "Royal Standard"... | Copenhagen ... | 1 | ... | Case removed at Copenhagen... | ,, |
| ,, 26 | s.s. "Munificent" ... | Rotterdam .. | 1 | ... | Case removed at Rotterdam ... | ,, |
| July 6 | s.s. "Castle Garth" .. | Odessa and Antwerp. | 1 | ... | Case removed at Gibraltar ... | ,, |
| ,, 20 | s.s. "Loch Lomond" ... | Norfolk ... ... Via Hamburg. | 1 | ... | Case removed at New York ... | ,, |
| ,, 24 | ship "Aconcagua" ... | Antwerp ... | ... | 1 | Case removed to Tyne Floating Hospital. | Vessel and effects disinfected. |
| ,, 27 | bk. "Bonita" ... ... | Rotterdam ... | ... | 1 | Case removed to Tyne Floating Hospital. | ,, |
| ,, ,, | sch. "Nicoline" ... | Denmark .. | ... | 1 | Suspected case. Removed to Tyne Floating Hospital. | ,, |
| ,, 30 | bk. "Bonita" ... ... | Rotterdam ... | ... | 1 | ,, ,, ,, | ,, |
| Sept. 14 | s.s. "Caloric" ... ... | Terneuzen ... | 2 | 1 | 2 cases removed at Terneuzen, and 1 suspected case removed to Tyne Floating Hospital. | ,, |
| | | TOTAL ... | 11 | 5* | | |

* See Appendix A.

## CHOLERA.

| Date of Arrival. | NAME OF SHIP. | From. | No. of Cases of Disease. On voyage. | No. of Cases of Disease. On arrival, etc. | REMARKS. | Notes on arrival in the Tyne. |
|---|---|---|---|---|---|---|
| Jan. 4 | s.s. "Knight of St. George" | Jeddah and Hull. | 111 | ... | 111 cases at Jeddah. Vessel disinfected on arrival in the Tyne. | All well. |
| Feb. 7 | s.s. "Samoa" ... ... | Jeddah and Antwerp. | 100 | ... | 100 ,, ,, ,, | ,, |
| Aug. 18 | s.s. "Harrogate" ... | S. Petersburg & Rotterdam. | 1 | ... | Case (fatal) at St. Petersburg. Vessel disinfected on arrival in the Tyne. | ,, |
| Sept. 6 | sch. "Vera" ... ... | Riga & Ghent | 1 | ... | Case removed at Riga .. ... | ,, |
| ,, 8 | bg. "Edward" ... ... | Cronstadt & Grangemouth | 1 | ... | Case (fatal) at Cronstadt. Vessel and effects disinfected on arrival in the Tyne. | ,, |
| | | TOTAL ... | 214 | ... | | |

## SCARLET FEVER.

| Date of Arrival. | NAME OF SHIP. | From. | No. of Cases of Disease. On Voyage. | No. of Cases of Disease. On Arrival, etc. | REMARKS. | Notes on arrival in the Tyne. |
|---|---|---|---|---|---|---|
| June 9 | sch. "Laura" ... ... | Ipswich ... | 1 | ... | 1 case removed at Ipswich. .. | All well. |
| Sept. 11 | s.s. "Eddystone" ... | Sea (fishing grounds). | ... | 1 | 1 case developed on shore two days after arrival of ship; removed to So. Shields Borough Hosp. | ,, |
| | | | 1 | 1 | | |

## DIPHTHERIA.

| Date of Arrival. | NAME OF SHIP. | From. | No. of Cases of Disease. On Voyage. | No. of Cases of Disease. On Arrival, etc. | REMARKS. | Notes on arrival in the Tyne. |
|---|---|---|---|---|---|---|
| June 11 | s.s. "Rowland" ... ... | Nicolief ... | 1 | ... | Case removed at Nicolief ... | All well. |

## ENTERIC (OR TYPHOID) FEVER.

| Date of Arrival. | NAME OF SHIP. | From. | No. of Cases of Disease. On Voyage. | No. of Cases of Disease. On arrival, etc. | REMARKS. | Notes on arrival in the Tyne. |
|---|---|---|---|---|---|---|
| Jan. 9 | s.s. "Springfield" ... | Reval and London. | 1 | ... | 1 case at Reval ... ... ... | All well. |
| ,, 13 | s.s. "Magnus Mail" ... | Alexandria .. | 1 | ... | 1 case fatal at Alexandria ... | ,, |
| Feb. 15 | s.s. "Prudentia" ... | Rouen ... | 2 | ... | 2 cases on voyage... ... ... | ,, |
| Mar. 13 | bk. "Wilhelm Tell" ... | Iquique and Hull. | 7 | ... | All on voyage ... ... ... | ,, |
| May 17 | bk. "Olive" ... ... | London ... | ... | 1 | Case removed to Tyne Floating Hospital. | Vessel, &c. disinfected. |
| Aug. 2 | bk. "Carioca" ... ... | Hamburg ... | ... | 1 | Case removed to Tyne Floating Hospital. | ,, |
| Sep. 10 | sch. "Sunshine" ... | Whitstable... | ... | 1 | Case removed to Tyne Floating Hospital. | ,, |
| ,, 29 | s.s. "Kingsdale" ... | London ... | 1 | ... | Case removed at London . ... | All well. |
| Nov. 9 | s.s. "Danmark" ... | Rouen ... | ... | 1 | Suspected case. Removed to Tyne Floating Hospital. | Vessel, &c. disinfected. |
| | | TOTAL ... | 12 | 4* | | |

* See Appendix A.

## DIARRHŒA AND CHOLERAIC DIARRHŒA.

| Date of Arrival. | NAME OF SHIP. | From. | No. of cases of Disease. On Voyage. | No. of cases of Disease. On or after Arrival. |
|---|---|---|---|---|
| Jan. 13 | s.s. "Horsa" ... | Hartlepool... | ... | 2 |
| ,, 16 | s.s. "Bernicia" ... | London ... | 1 | ... |
| ,, 18 | s.s. "City" ... | Hamburg ... | 6 | ... |
| ,, 26 | s.s. "Orange Prince" | Bordeaux ... | 1 | ... |
| Feb. 21 | s.s. "Sharon" ... | Copenhagen | 2 | ... |
| ,, 22 | s.s. "Violet" ... | Bilbao ... | .. | 1 |
| ,, 24 | bk. "Glenark" ... | Hamburg ... | ... | 1 |
| Mar. 1 | ship "Australia" ... | Havre ... | 2 | ... |
| ,, ,, | s.s. "Fremona" ... | Bremen ... | ... | 1 |
| ,, 13 | s.s. "Walter Thomas" | Hull ... | 3 | ... |
| ,, 15 | s.s. "Westburn" ... | London ... | 5 | ... |
| April 3 | s.s. "Snilesworth".. | Rotterdam... | ... | 1 |
| ,, 10 | s.s. "Storra Lee"... | Buenos Ayres & Middlesbro' | 1 | ... |
| May 3 | s.s. "Vortigern" ... | Hamburg ... | 1 | ... |
| ,, 14 | s.s. "Raisby" ... | Dunkirk ... | 3 | ... |
| ,, 16 | s.s. "Athole" ... | Garrucha ... | ... | 1 |
| ,, ,, | s.s. "Largo Bay"... | Aarhuus ... | 1 | ... |
| ,, 17 | bk. "Raneagua" ... | St. Nazaire | 4 | ... |
| ,, 22 | s.s. Southerene" ... | Dunkirk ... | 4 | ... |
| June 1 | ship "France" ... | ,, | 9 | ... |
| ,, 5 | s.s. "Georgian Prince" | Antwerp ... | 3 | ... |
| ,, 15 | s.s. "Geo. Royal".. | Hamburg ... | 1 | ... |
| ,, ,, | s.s. "Imperial Prince" | Havre ... | 8 | ... |
| ,, 21 | bk. "Errol" ... | Portland (Oregon) | 6 | ... |
| ,, 27 | bk. "Lika" ... | Dundee ... | 6 | ... |
| July 1 | s.s. "Haverstoe"... | Bassein ... | 9 | ... |
| ,, 3 | s.s. "Geo. Eaton"... | Odessa and Antwerp | 5 | ... |
| ,, 11 | s.s. "Gulf of Siam" | Rangoon ... | 11 | ... |
| ,, 16 | s.s. "Arara" ... | Bombay and Dunkirk | 12 | ... |
| ,, 19 | s.s. "Altonower"... | India and America | 2 | ... |
| ,, 23 | s.s. "Tangerville"... | Havre ... | 3 | ... |
| ,, ,, | s.s. "Loch Maree". | Rotterdam... | 6 | ... |
| Aug. 2 | s.s. "Jaffa" ... | Black Sea & Lynn | 8 | ... |
| ,, 3 | s.s. "Hambleton"... | Odessa and Hull | ... | 1 |
| ,, 20 | s.s. "Vanadi" ... | Gothenburg | ... | 1 |
| | | *Carried forward* | 123 | 9 |

| Date of Arrival. | NAME OF SHIP. | From. | No. of cases of Disease. On Voyage. | No. of cases of Disease. On or after Arrival. |
|---|---|---|---|---|
| | | *Brought forward* | 123 | 9 |
| Aug. 26 | s.s. "Cedar Branch" | Baltimore ... | ... | 3 |
| ,, 27 | s.s. "Jno. Fothergill" | Hamburg ... | ... | 1 |
| ,, 31 | s.s. "Strathness"... | Antwerp ... | 4 | ... |
| Sept. 4 | s.s. "Mexico" ... | Hamburg ... | ... | 1 |
| ,, 13 | s.s. "Treseo" ... | Smyrna and Leith | 3 | ... |
| ,, 17 | bk. "Castor" ... | Geelong ... | 6 | ... |
| ,, 19 | s.s. "Fastnet" ... | Bremen ... | 3 | ... |
| ,, 21 | s.s. "Sumatra" ... | Antwerp ... | 2 | ... |
| ,, 25 | bk. "Pallas" ... | Buenos Ayres | 4 | ... |
| ,, 27 | s.s. "R. F. Mathews" | Bilbao ... | 2 | ... |
| Oct. 1 | bk. "Chas. Racine" | Antwerp ... | 4 | ... |
| ,, ,, | s.s. "Faulklands"... | Marseilles ... | 21 | ... |
| ,, 3 | s.s. "Astral" ... | Copenhagen | 3 | ... |
| ,, ,, | bk. "Roderick Dhu" | Buenos Ayres | 5 | ... |
| ,, 10 | s.s. "Bucentaur"... | Almeria and Hull | 2 | ... |
| ,, 13 | s.s. "Prins Oscar".. | Havre .... | ... | 1 |
| ,, 15 | s.s. "Altrena" ... | Sebastopol & Hull | 2 | ... |
| ,, 19 | s.s. "Circassian Prince" | River Plate & Rotterdam | 3 | ... |
| ,, 31 | bk. "Falls of Dee" | Calcutta and Boston | 14 | ... |
| Nov. 6 | s.s "Maggie McNair" | Sulina ... | 2 | ... |
| ,, 8 | bk. "Helois" ... | Buenos Ayres | 3 | ... |
| ,, 10 | bk. "Adelaide" ... | San Francisco & Sunderland | 4 | ... |
| ,, 16 | bk. "Newfield" ... | Iquique and Antwerp | 6 | ... |
| ,, 20 | bk. "Queen Louise" | Calcutta and Dundee | 7 | ... |
| ,, 26 | s.s "Turkish Prince" | West Indies and Havre | 7 | ... |
| ,, ,, | s.s. "Tyne Head"... | Antwerp and London | 8 | ... |
| Dec. 22 | s.s. "Bahrenfeld"... | Hamburg ... | 2 | ... |
| ,, 24 | s.s. "Skerryvore"... | Odessa and Bremen | 8 | ... |
| ,, 26 | s.s. "Storra Lee"... | Odessa and London | 5 | ... |
| ,, 30 | s.s. "Golgotha" ... | Aberdeen ... | 3 | ... |
| | | TOTAL ... | 256 | 15 |

## DYSENTERY.

| Date of Arrival. | NAME OF SHIP. | From. | No. of Cases of Disease. On Voyage. | No. of Cases of Disease. On Arrival, etc. |
|---|---|---|---|---|
| Jan. 4 | s.s. "Fastnet" ... | Amsterdam.. | 1 | ... |
| ,, 23 | bk. "Arcturus" ... | Savannah ... | ... | 1 |
| Feb. 13 | s.s. "Snilesworth"... | Antwerp ... | ... | 1 |
| April 2 | s.s. "Falloden Hall" | Hamburg ... | ... | 1 |
| ,, 11 | bk. "Langfield" ... | Pensacola ... | ... | 1 |
| June 3 | s.s. "Kathleen" ... | Las Palmas.. | 1 | ... |
| ,, 13 | s.s. "Frude" ... | Libau ... | ... | 1 |
| Sept 5 | s.s. "Chicago" ... | New York .. | ... | 1 |
| Nov. 7 | s.s. "Vildolana" ... | Almeria and Middlesbro' | 2 | ... |
| Dec. 24 | s s. "Linhope" .. | Rotterdam & London | 1 | ... |
| | | TOTAL ... | 5 | 6 |

## FEVER AND AGUE.

| | | | | |
|---|---|---|---|---|
| Jan. 16 | s.s. "Bernicia" ... | Madras and London | .. | 2 |
| Mar. 13 | ship "Wilhelm Tell" | Iquique and Hull | 6 | ... |
| ,, 15 | s.s. "Westburn" ... | Odessa and London | 3 | ... |
| April 4 | s.s. "Glenloig" ... | Savannah ... | ... | 1 |
| ,, 11 | s.s. "Lucern" ... | Bilbao ... | ... | 1 |
| Aug. 16 | bk. "Nanna" ... | Bahia and Stockton | 2 | ... |
| ,, 26 | s.s. "Cedar Branch" | Baltimore ... | ... | 2 |
| Oct. 9 | s.s. "Danby" ... | Nicolief and Hull | 3 | ... |
| Nov. 10 | bk. "Adelaide" ... | San Francisco & Stockton | 2 | .. |
| ,, 16 | bk. "Newfield" ... | Iquique and Antwerp | 4 | ... |
| ,, 20 | s.s. "Queen Louise" | Calcutta and Dundee | 3 | ... |
| | | TOTAL ... | 23 | 6 |

## MALARIAL FEVER.

| Date of Arrival. | NAME OF SHIP. | From. | No. of Cases of Disease. On Voyage. | No. of Cases of Disease. On Arrival, etc. |
|---|---|---|---|---|
| Jan. 19 | s.s. "Abeona" ... | London ... | ... | 2 |
| May 27 | s.s. "Holderness"... | Bilbao ... | ... | 2 |
| June 5 | s.s. "Tankerville"... | Hamburg ... | 3 | ... |
| ,, 16 | s.s. "Capella" ... | Bergen ... | ... | 1 |
| ,, 19 | s.s. "Eboe" ... | Hamburg ... | 21 | .. |
| ,, 27 | bk. "Schmidt" ... | London ... | 4 | ... |
| July 6 | s.s. "Gulf Stream". | Buenos Ayres | 5 | ... |
| ,, 19 | s.s. "Altonower"... | East India & London | 4 | ... |
| ,, 31 | bk. "Guido" ... | Finland ... | ... | 1 |
| Aug. 10 | s.s. "Wm. Stour"... | Nordenham.. | 1 | ... |
| ,, 21 | s.s. "Kathleen" ... | Bilbao ... | ... | 1 |
| ,, 29 | s.s "Phœnix" ... | Bushire ... | 1 | ... |
| ,, 31 | s.s. "Puma" ... | Rotterdam... | 1 | ... |
| Oct. 13 | bk. "Marjorie Glen" | Santos and Hull | 4 | ... |
| | | TOTAL ... | 44 | 7 |

## YELLOW FEVER.

| | | | | |
|---|---|---|---|---|
| July 9 | bk. "Prince Victor" | Buenos Ayres | 1 | ... |
| ,, 23 | s.s. "Roman Prince" | Brazil and Havre | 5 | ... |
| Sept. 20 | bk. "Sam Mendel" | Rio & Calais | 14 | ... |
| | | TOTAL ... | 20 | ... |

## INFLUENZA.

85 Cases reported on voyage, etc., on 55 different vessels.

## SCURVY.

| Date of Arrival. | NAME OF SHIP. | From. | No of Cases of Disease. On Voyage. | No of Cases of Disease. On Arrival, etc. | REMARKS. | Notes on arrival in the Tyne. |
|---|---|---|---|---|---|---|
| Jan 18 | bk. "Nokalai" ... ... | Calcutta and Hull | ... | 1 | Case on arrival ... ... ... | ... |

## Vessels Arriving from Infected or Suspected Ports.*

The following return shows the number of vessels boarded in this Port by the Officers of the Port Sanitary Authority, on account of coming directly or otherwise from Foreign Ports infected, or suspected to be infected, with Cholera or Smallpox.:—

| 1894. | From Infected Ports. | | From Suspected Ports. | | Totals. |
|---|---|---|---|---|---|
| | Directly. | Indirectly. | Directly. | Indirectly. | |
| January... ... | 44 | 16 | 11 | 5 | 76 |
| February ... | 38 | 12 | 2 | 1 | 53 |
| March ... ... | 27 | 12 | 9 | 4 | 52 |
| April ... ... | 26 | 15 | 6 | 1 | 48 |
| May ... ... | 30 | 16 | 25 | 2 | 73 |
| June ... ... | 75 | 30 | 8 | ... | 113 |
| July ... ... | 78 | 33 | 14 | ... | 125 |
| August ... ... | 206 | 18 | 7 | ... | 231 |
| September ... | 124 | 27 | 17 | 6 | 174 |
| October... ... | 31 | 4 | 1 | ... | 36 |
| November ... | 7 | 2 | 2 | ... | 11 |
| December ... | 2 | ... | 6 | 4 | 12 |
| Total ... | 688 | 185 | 108 | 23 | 1004 |

* See opposite page.

Vessels arriving in the Tyne from infected ports were boarded by the Officers of the Tyne Port Sanitary Authority as under :—

| NAME OF PORT. | To the Tyne. Directly. | Indirectly | NAME OF PORT. | To the Tyne. Directly. | Indirectly |
|---|---|---|---|---|---|
| | No. of Vessels boarded. | | | No. of Vessels boarded. | |
| | | | *Brought forward* ... | 614 | 70 |
| *Leith ... ... .. | 36 | ... | †Sebastopol ... ... | 2 | 1 |
| *Smyrna ... ... ... | 5 | 15 | †Poti ... ... ... | 1 | 1 |
| *†Rotterdam ... ... | 203 | 2 | †Eupatoria ... ... | 1 | ... |
| †Amsterdam ... ... | 82 | 1 | †Archangel ... ... | 6 | 3 |
| †Antwerp ... ... | 66 | 2 | †Dieppe ... ... ... | 18 | 4 |
| †Ghent ... ... ... | 28 | ... | †Helsingfors ... ... | 4 | ... |
| †Zaandam ... .. | 10 | ... | †Kertch ... ... ... | 1 | 1 |
| †Dordt ... ... ... | 18 | ... | †Memel ... ... ... | 4 | 2 |
| †Aarlingen ... ... | 9 | ... | †Maasluys ... ... | 1 | 5 |
| †Terneuzen ... ... | 16 | 1 | †Salonica ... ... | ... | 2 |
| †Tonning ... ... | 6 | ... | †Ibrail ... ... ... | ... | 14 |
| †Flushing ... ... | 15 | ... | †Taganrog .. ... | ... | 7 |
| †Ostend ... ... ... | 18 | ... | †Nicolief ... ... ... | 3 | 8 |
| †Riga ... ... ... | 18 | 22 | †Jeddah ... ... ... | ... | 2 |
| †Cronstadt ... ... | 4 | 7 | †Odessa ... ... ... | 8 | 47 |
| †St. Petersburg ... ... | 10 | 11 | †Abo ... ... ... | 4 | 2 |
| †Rouen ... ... ... | 42 | 3 | †Marseilles ... ... | 1 | ... |
| †Nantes ... ... ... | 6 | ... | †Buenos Ayres ... ... | 2 | 4 |
| †Honfleur ... ... | 10 | 1 | *Benisaf ... ... ... | 17 | 11 |
| †Dantzic ... ... ... | 12 | 5 | †Rosario .. ... .. | 1 | 1 |
| *Carried forward* ... | 614 | 70 | Totals ... ... | 688 | 185 |

* Ports reported infected with Smallpox.

† Ports reported infected with Cholera.

## Summary.

261 vessels arrived directly and 28 indirectly from ports infected with smallpox.
630 „ „ 159 „ „ „ „ cholera.

891 187

Note.—One port (Rotterdam) was infected with both smallpox and cholera, hence the difference in the above totals.

## General Sickness of Ships' Companies.

In continuance of the system begun during 1889, the masters of all vessels arriving in the Tyne, and visited by the Officers of the Authority during the year under report, have been interrogated as to the general sickness of those on board during the voyage. The diseases, as entered in the ships' logs, either during voyage or in port, or, in cases admitted to hospital and diagnosed by ourselves after arrival here, are stated in a Table of 1,069 cases (see Appendix B). The corresponding total during 1893 was 782.

## Emigrants.

Emigrant vessels coming to the Tyne have, as heretofore, been visited by the Inspectors on arrival, and kept under supervision whilst in Port.

Information as to Emigrants debarking here and proceeding overland to other British Ports, continues to be forwarded to the Medical Officers of Health of the respective Ports.

The number of Emigrants passing through the Tyne Port during 1894 so far as is known, was as follows :—

| | | | | No. of Emigrants. |
|---|---|---|---|---|
| For America by | White Star Line | from | Liverpool... ... ... | 57 |
| ,, ,, ,, | Cunard Line | ,, | ,, ... ... | 39 |
| ,, ,, ,, | Dominion Line | ,, | ,, ... ... | 16 |
| ,, ,, ,, | American Line | ,, | ,, ... ... | 37 |
| ,, ,, ,, | Guion Line | ,, | ,, ... ... | 1 |
| ,, ,, ,, | State Line | ,, | Glasgow ... ... | 15 |
| ,, ,, ,, | Allan Line | ,, | Liverpool ... ... | 22 |
| ,, ,, ,, | Anchor Line | ,, | Glasgow ... ... | 6 |
| | | | Total ... ... ... | 193* |

* In 1893 the corresponding number was 1,015.

## General Sanitary Work.

The following is the return of inspections made and other work done by Inspector Irvin and his assistants :—

Vessels inspected during the year 1894.

| | |
|---|---|
| British Steamers ... ... ... | 7,213 |
| ,, Sailing Vessels ... ... | 1,259 |
| ,, Fishing ,, .... .. | 704 |
| Foreign Steamers .. ... ... | 1,783 |
| ,, Sailing Vessels ... ... | 1,084 |
| Total ... ... | 12,043* |
| Extra Visits paid ... ... ... | 1,024 |
| Visits to Water Boats ... ... | 52 |
| ,, Gangways ... ... | 44† |
| Total Number of Visits ... ... | 13,163‡ |

The Nationalities of the Vessels were as follows :—

| | |
|---|---|
| British ... ... ... ... | 9,176 |
| Danish ... ... ... ... | 491 |
| Norwegian ... ... ... ... | 736 |
| German ... ... ... .. | 744 |
| Swedish ... ... ... ... | 331 |
| French ... ... ... ... | 216 |
| Spanish .. ... .. ... | 81 |
| Russian .. ... ... ... | 161 |
| Greek ... ... .. ... | 6 |
| Italian ... .... ... ... | 24 |
| Dutch ... ... ... ... | 40 |
| Austrian ... ... ... ... | 9 |
| Belgian ... ... ... ... | 24 |
| American ... ... ... ... | 3 |
| Japanese ... ... ... ... | 1 |
| Total ... ... ... | 12,043 |

Of the above Vessels the sanitary condition was as follows :—

| | |
|---|---|
| Good ... .. ... ... | 9,241 |
| Passable ... ... ... ... | 842 |
| Defective ... ... ... ... | 1,960 |
| Total ... ... ... | 12,043 |

* An increase of 716 on the return for the previous year.

† The Gangways of the Tyne General Ferry Company (22 in number), extending from the Fish Quay, North Shields, to Elswick, have been inspected twice, and, with the exception of one (defective and since repaired), were found in good condition.

‡ A decrease of 546 below the number in the previous year.

The number of Vessels inspected during each of the last sixteen years has been as follows :—

| | |
|---|---|
| In 1879 ... ... ... ... | 2,410 |
| ,, 1880 .... ... ... ... | 2,997 |
| ,, 1881 .... ... ... ... | 3,309 |
| ,, 1882 ... ... ... ... | 6,623 |
| ,, 1883 ... ... ... ... | 11,572 |
| ,, 1884 ... ... ... ... | 12,078 |
| ,, 1885 ... ... ... ... | 13,530 |
| ,, 1886 ... ... ... ... | 12,139 |
| ,, 1887 ... ... ... ... | 13,045 |
| ,, 1888 ... ... ... ... | 12,819 |
| ,, 1889 ... ... ... ... | 13,566 |
| ,, 1890 ... ... .. ... | 12,018 |
| ,, 1891 ... ... ... ... | 11,533 |
| ,, 1892 ... ... ... ... | 9,582 |
| ,, 1893 ... ... ... ... | 11,327 |
| ,, 1894 ... ... ... ... | 12,043 |

The total number of arrivals in port during the year, as stated by the Customs, is 15,217,* or 53 less than during the previous year.

The structural defects of Vessels observed include the following :—

| | Cases. |
|---|---|
| Insufficient Ventilation ... ... | 83 |
| Iron Deck to Line with Wood ... ... | 68 |
| Paint Locker in bad position ... ... | 52 |
| Defective Drainage ... ... ... | 49 |
| Defective Lighting ... ... ... | 19 |
| Defective Water Closets ... ... | 82 |
| Forecastle Deck Leaking ... ... | 13 |
| Side Scuttles to Re-fit ... ... | 159 |
| Cargo Bulkhead defective ... ... | 9 |
| File Wood Flooring defective ... ... | 10 |
| Total ... ... | 544† |

Notices were served, or orders given, to abate nuisances or remedy sanitary defects, either in the crew spaces. closets, peaks, holds, or bilges, as follows :—

| | |
|---|---|
| British Steamers ... ... ... | 1,093 |
| ,, Sailing Vessels ... ... ... | 114 |
| ,, Fishing Vessels ... ... ... | 22 |
| Foreign Steamers ... ... ... | 459 |
| ,, Sailing Vessels ... ... ... | 272 |
| | 1,960‡ |

* From a return courteously furnished by Mr. J. J. Head, Collector of H.M. Customs.

† All are known to have complied with requirements.

‡ An increase of 135 over the number for the previous year.

| | |
|---|---|
| Total number of crews of Vessels visited by the Inspectors ... | 152,038 |
| ,, passengers ,, ,, ... | 35,641 |
| ,, emigrants arriving in the Tyne ... ... | 183 |
| Total ... ... ... | 187,872* |
| Vessels arriving Coastwise and inspected ... ... ... | 6,266 |
| Fishing Vessels arriving Coastwise and inspected ... ... | 704 |
| Vessels arriving from Foreign Ports and Inspected ... ... | 5,073 |
| Total ... ... ... | 12,043 |

## Special Cargoes Inspected.

Among the different Cargoes examined by the Inspectors were the undermentioned :—

| Description. | Rags. | Bones. | Onions. | Wheat. | Foreign Fish. | Potatoes. | Fruit. | Total. |
|---|---|---|---|---|---|---|---|---|
| No. of Consignments Examined | 86 | 4 | 17 | 207 | 606 | 75 | 89 | 1084† |

## Water-Boats and Water Supply to Ships in Port.

The water-boats, 31 in number, have been examined as usual, and found in good condition.

In 94 cases the *drinking water* of ships, of which 81 came from Ports infected with cholera, has been changed, and the purification of the tanks has been seen to by the Inspector, acting under the direction of the Medical Officer of Health. No complaint respecting the water supply to any ship has been made to any officer of the Authority.

## Food Inspection.

The Food on board of five vessels was inspected on complaints by the crews. In two instances the food (Beef, Potatoes, and Flour) was found to be bad, and was destroyed in the presence of the Inspector.

## Advices as to Sickness

on shipboard, and other matters, continue to be received from and forwarded to the Health Departments of other British Port Sanitary Authorities.

## Clothing and Bedding.

18 vessels and several lots of clothing or bedding have been **disinfected.** 107 Beds have been burnt, and 26 lots of filthy clothing have been destroyed, on account of infection.

## Passenger Steamers.

The Passenger Steamers arriving continue to be regularly visited and examined.

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* An increase of 18,130 over the number for the previous year.

† A decrease of 319 below the number for the previous year.

## Fishing Boats.

The total arrival of fishing vessels at the Quay, North Shields, steam and sailing, is 15,567* (5,765 Trawlers and 9,802 Herring Boats) as compared with a total of 16,632 in the previous year. 22 of these, in foul condition, were cleansed and deodorized on notice from the Inspector. The rest were in good order.

Large consignments of Herring and other Fish come from Denmark, Norway, and Sweden.

## Overcrowding.

One case only under this heading has come under observation. Notice to abate was served and complied with.

## Smoke Nuisance.

The Inspector reports that 31 observations of evolution of dense smoke have been made, and that in each case the offender has been communicated with. This is an increase of five cases over the number in the previous year.

## Regulations.

Copies of Regulations issued have, as usual, been posted on all gangways, and delivered on board of vessels in the port.

## Foul Cattle Ships.

The Inspector reports that 24 Cattle Ships arrived in the port in a filthy state after having landed cattle elsewhere. Two of these arrived from New York (direct), and three from Montreal (direct). The remainder (indirect) came from Havre, Rotterdam, London, Dundee, and Leith. They were cleansed under his supervision. The number reported in the previous year was 2.

## Watch.

Watch continues to be kept on all vessels homeward bound from infected or suspected ports.

## Floating Hospital.

The Floating Hospital having been reported to be in need of painting, was, under the direction of the Hospital Committee, removed in April to the Dock of Messrs. T. & W. Smith & Co., North Shields, where the Pontoons received three coats of red oxide paint. At the same time the administrative ship "Alliance" was docked, overhauled, caulked, and repaired.

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* A decrease of 1,065 (815 Trawlers and 250 Herring Boats,) below the number in the previous year.

From a return courteously furnished by Mr. McKenzie, Quay Master, North Shields.

## Disinfecting Hulk.

The Disinfecting Hulk ordered by the Authority and referred to in the Annual Report of the Medical Officer of Health for 1893 (p. 22), was completed, and, after survey, reported in good general working order in October of 1894.

The apparatus is made by Messrs. Goddard, Massey & Warner, Nottingham, and consists of—

1.—*Two Tanks for Solution of Perchloride of Mercury*, with appliances for pumping and spraying the Drench.

2.—*A Steam Disinfecting Apparatus* for clothing, &c.

3.—*A Store of Liquefied Sulphurous Acid* for disinfecting cabins, berths, holds, &c.

The following is Mr. Warner's description—

"The Hulk measures 54½ feet extreme length, and 18½ feet extreme breadth. The available space for machinery and storage is 29¼ feet long by 18 feet wide, forming the hold. The Deck is continuous along the sides about 2 feet wide, and at the fore and aft about 12 feet by 12 feet. The Disinfecting Apparatus consists of two barrels for solution of perchloride of mercury, together having a capacity of about 600 gallons: and a metal tank of a capacity of 190 gallons: a Steam Disinfector 3 feet diameter by 5 feet 6 inches long, with the usual fittings to allow steam to pass into the materials under treatment: a steam pressure guage to register the temperature and pressure. The Air Compressor is of the vertical type, and has steam cylinder 4 inches diameter by three-inch stroke, with air compressing cylinder 5 inches diameter by 3-inch stroke. It is provided with fly-wheel and crank shaft to give even speed and regulate length of stroke; the air inlet and outlet valves are gun metal. The compressed air is conveyed to an air receiver 2 feet diameter by 5 feet high, made of steel boiler plates to form a reservoir of air at a pressure. The Steam Boiler is vertical type of four-horse power, 6 feet high by 3 feet diameter, having internal fire box and two cross tubes; it is provided with steam pipes and connected with the air compressor on one side, and the steam disinfector on the other. The Boiler is capable of working at a pressure of 60 lbs. on the square inch, but a less pressure is found sufficient to work the air compressor and the disinfector. When working, steam is got up in the boiler and then passed by opening a valve into the pipes, so that clothing may be disinfected as desired by steam, but in order to use the perchloride of mercury spray, the air compressor is started and allowed to compress air to about 10 lbs. pressure inside the air receiver. The compressed air supply pipes connect between the air receiver and two special spray nozzles, and they are also connected to the bottom of the perchloride storage tanks. When the spray is used, the compressed air passes down a double pipe conveying it along with the solution, and they meet together at the nozzle, where the force of air forms a spray at a pressure sufficient to carry several feet, and thus the decks and internal parts of an infected vessel may be easily covered with a fine spray of solution of perchloride of mercury."

Certain small improvements which have suggested themselves, are about to be made.

## Cholera Precautions.

The progress of Cholera abroad was studiously noted by the Health Department throughout the prevalence of the disease.

The arrivals of vessels in relation to Cholera and Choleraic Diarrhœa are given elsewhere.* Although in two ships arriving indirectly from Jeddah, the number of cases of Cholera on board during the voyage had been 100 and 111 respectively, fortunately no infection was brought to the Tyne Port during the year.

In several instances, after disease on board during the voyage, the disinfection of the ships was repeated, and the drinking water was changed under the direction of the Medical Officer of Health, as extra measures of precaution on arrival here.

The prevalence of the disease in Dutch, Belgian, and Baltic ports in Autumn. necessitated the maintenance of strict watch, day and night, over all arrivals from these ports. Arrangements were made with Dr. W. R. Forster, whose services as a Boarding Medical Officer were so valuable last year, and also with Dr. C. U. Laws, to hold themselves in readiness to take boarding duty immediately in case of this being necessary. Happily their services were not required. The time and energies of the ordinary staff of the Health Department were however greatly taxed, there having been 330 arrivals from Cholera infected ports during the months of August and September, requiring the frequent use of the steam launch by night as well as in the daytime until late hours. The Officers responded willingly to the extra call upon them.

## Water and Sand Ballast.

In June Dr. Theodore Thomson visited the port on an inquiry relating to the ballast of ships from Cholera infected ports, &c. A Return (a copy of which is given in Appendix C.) was furnished to him by the Medical Officer of Health of the vessels with sand-and water-ballast dealt with from the end of August, 1892, to the end of 1893.

HENRY E. ARMSTRONG, D.Hy.,

*Medical Officer of Health.*

Health Department,
Town Hall,
Newcastle-upon-Tyne,
18*th January*, 1895.

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* pp. 5 and 6.

# APPENDIX A.

## Return of Cases Admitted to the Floating Hospital during the year 1894.

| Date of Admission. | Disease. | No. of Cases. | From what Ship. | Ships, where from | Result and Date. |
|---|---|---|---|---|---|
| May 17th ... ... | Enteric Fever ... ... | 1 | bk. "Olive" ... ... ... ... | London ... | Discharged June 16th. |
| July 24th ... ... | Smallpox ... ... | 1 | ship "Aconcagua" ... ... ... | Antwerp ... | ,, September 8th. |
| ,, 27th ... ... | * Erythema Papulatum | 1 | schooner "Nicoline" ... .. | Denmark ... | ,, August 1st. |
| ,, 27th ... ... | Smallpox ... ... | 1 | bk. "Bonita" ... ... ... | Rotterdam ... | ,, September 24th. |
| ,, 30th ... .. | * Diarrhœa ... ... | 1 | bk. "Bonita" ... ... ... | Rotterdam ... | ,, August 6th. |
| August 2nd ... | Enteric Fever ... ... | 1 | bk. "Carioca" ... ... ... | Hamburg ... | ,, September 10th. |
| September 10th .. | ,, ,, ... ... | 1 | schooner "Sunshine" ... ... | Whitstable .. | ,, October 6th. |
| ,, 14th ... | * Pneumonia ... ... | 1 | s.s. "Caloric" ... .. ... | Terneuzen .. | ,, September 17th. Removed to Royal Infirmary, Newcastle. |
| November 9th ... | Diarrhœa ... ... | 1 | s.s. "Danmark" ... ... ... | Rouen ... | Discharged November 20th |
| | | 9 | | | |

* Removed as suspected cases of Smallpox. † Removed as suspected case of Enteric Fever.

# RIVER TYNE PORT

## APPENDIX

Return shewing cases of Sickness * reported by Masters of Vessels as having different months

| DATE. 1894. | Cholera. | Smallpox. | Suspected Smallpox. | Diphtheria. | Scarlet Fever. | Enteric Fever. | Suspected Enteric Fever. | Intermittent Fever. | Influenza. | Yellow Fever. | Malarial Fever. | Fever and Ague. | Diarrhœa & Cholcraic Diarrhœa. | Dysentery. | Syphilis. | Gonorrhœa, &c. | Erysipelas. | Scurvy. | Intemperance. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| January ... | † 111 | x 1 | ... | ... | ... | x 2 | .... | ... | 28 | ... | 2 | 2 | 10 | 2 | x 2 | 1 | ... | 1 | ... |
| February ... | † 100 | 3 | ... | ... | ... | 2 | ... | 5 | 20 | ... | ... | ... | 4 | 1 | 3 | ... | ... | ... | ... |
| March ... | ... | ... | ... | ... | ... | 7 | ... | ... | 5 | ... | ... | 9 | 11 | ... | 1 | ... | ... | ... | ... |
| April ... | ... | 1 | ... | ... | ... | ... | ... | ... | 2 | ... | ... | 2 | 2 | 2 | 2 | ... | 1 | ... | ... |
| May... ... | ... | 2 | ... | ... | ... | a 1 | ... | ... | 3 | ... | 2 | ... | 14 | ... | 1 | 1 | ... | ... | ... |
| June ... | ... | ... | ... | 1 | 1 | .. | ... | ... | ... | ... | 29 | ... | 33 | x 2 | 2 | ... | ... | ... | ... |
| July... ... | ... | aa 4 | aa 2 | ... | ... | ... | ... | ... | ... | xxxxx 6 | 10 | ... | 48 | ... | 1 | ... | 1 | ... | ... |
| August ... | x 1 | ... | ... | ... | ... | a 1 | ... | ... | 2 | ... | 4 | 4 | 18 | ... | 2 | 1 | ... | ... | ... |
| September ... | x 2 | 2 | a 1 | ... | 1 | a 2 | ... | ... | 3 | xxxx 14 | ... | ... | 21 | 1 | ... | 3 | ... | ... | ... |
| October ... | ... | ... | ... | .. | ... | ... | ... | ... | 5 | ... | 4 | 3 | 55 | ... | 1 | 3 | ... | ... | 2 |
| November ... | ... | ... | ... | ... | ... | ... | a 1 | x 1 | 4 | ... | .. | 9 | 37 | 2 | 1 | 2 | ... | ... | 2 |
| December ... | ... | ... | ... | ... | ... | ... | ... | ... | 13 | ... | ... | ... | 18 | 1 | 1 | 2 | ... | ... | ... |
| TOTALS ... | 214 | 13 | 3 | 1 | 2 | 15 | 1 | 6 | 85 | 20 | 51 | 29 | 271 | 11 | 17 | 13 | 2 | 1 | 4 |

* The names of the Diseases occurring during Voyage are given as reported by the Masters of the Vessels.

† See page 5.

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**B.**

occurred during the Voyage, or coming under notice in Port in each of the
of the Year 1894.

| Rheumatism. | Consumption. | Ophthalmia. | Neuralgia. | Fits. | Heart Disease. | Bronchitis. | Cold. | Pneumonia. | Pleurisy. | Tonsillitis. | Gastritis. | Colic. | Cramp. | Dropsy. | Indigestion. | Debility. | Accident. | Blood Poisoning. | Boils. | Ill-defined. | TOTALS. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | ... | ... | ... | ... | x 1 | 1 | 2 | 1 | ... | ... | ... | 2 | ... | ... | ... | ... | 11 | ... | ... | x 2 | 186 |
| 12 | 2 | ... | 2 | ... | ... | 2 | 1 | ... | ... | ... | ... | ... | ... | ... | ... | ... | x 5 | ... | ... | 1 | 163 |
| 1 | ... | ... | ... | ... | x 2 | 1 | ... | 1 | 1 | ... | ... | ... | 1 | ... | ... | ... | 13 | ... | ... | 1 | 54 |
| 4 | ... | ... | ... | ... | ... | 2 | ... | ... | 1 | 1 | ... | ... | ... | 1 | ... | 1 | 3 | ... | ... | 1 | 26 |
| 5 | ... | ... | ... | ... | 1 | 3 | ... | ... | 2 | 1 | 1 | ... | ... | ... | ... | 1 | 7 | 1 | ... | ... | 46 |
| 7 | ... | ... | ... | ... | x 1 | 1 | ... | 1 | 2 | 2 | ... | ... | ... | ... | ... | 1 | xxx 11 | ... | ... | ... | 94 |
| 4 | 3 | ... | 2 | 1 | ... | 1 | ... | ... | ... | ... | ... | 2 | ... | x 1 | 3 | ... | 9 | ... | 1 | ... | 99 |
| 3 | ... | ... | ... | ... | x 1 | 2 | 1 | ... | 1 | ... | ... | 3 | 8 | ... | 1 | 1 | 8 | ... | ... | ... | 62 |
| 2 | xx 3 | 1 | 1 | ... | xx 2 | ... | 2 | ... | ... | ... | ... | ... | 2 | ... | 3 | ... | 5 | 2 | ... | ... | 73 |
| 4 | ... | 2 | ... | ... | ... | 1 | 4 | ... | 3 | ... | ... | 2 | 7 | ... | 4 | 1 | xxx 10 | ... | ... | ... | 111 |
| 7 | 1 | 1 | 1 | ... | ... | 5 | 4 | ... | ... | 1 | ... | 3 | 1 | ... | 2 | ... | 6 | 2 | ... | 1 | 94 |
| 7 | 1 | ... | ... | ... | xx 2 | x 5 | 4 | ... | ... | ... | ... | 1 | ... | ... | ... | ... | x 6 | ... | ... | ... | 61 |
| 60 | 10 | 4 | 6 | 1 | 10 | 24 | 18 | 3 | 10 | 5 | 1 | 13 | 19 | 2 | 13 | 5 | 94 | 5 | 1 | 6 | 1,069 |

x Deaths.

*a* Removed to Tyne Floating Hospital.

# RIVER TYNE PORT SANITARY AUTHORITY.

## APPENDIX C.

*Copy of information furnished to Dr. Theodore Thomson, Local Government Board, 4th July, 1894.*

### CHOLERA, 1892-3.—Return of vessels with Sand-and Water-Ballast dealt with, 28th August, 1892, to 2nd December, 1893.

| Class of Vessel. | No. | Sand Ballast. | Water Ballast. |
|---|---|---|---|
| Sailing ... ... | 40 | 40 | ... |
| Steam ... ... | 356 | ... | 356 |
| Total ... | 396 | 40 | 356 |

### Nationalities of Vessels.

| Nationality. | Ballast. | | Nationality. | Ballast. | |
|---|---|---|---|---|---|
| | Sand. | Water. | | Sand. | Water. |
| | | | *Brought forward* ... | 33 | 328 |
| British ... ... | 20 | 279 | Norwegian ... | 6 | 15 |
| German ... ... | 4 | 35 | Belgian ... ... | ... | 3 |
| Russian ... ... | 2 | 3 | Italian ... ... | 1 | ... |
| Swedish ... ... | 3 | 2 | Danish ... ... | ... | 6 |
| French ... ... | 4 | 9 | Dutch .. ... | ... | 4 |
| *Carried forward* ... | 33 | 328 | Total ... | 40 | 356 |

### Port of Departure of Vessels.

| Port. | Ballast. | | Port. | Ballast. | |
|---|---|---|---|---|---|
| | Sand. | Water. | | Sand. | Water. |
| | | | *Brought forward* .. | 35 | 324 |
| Rouen ... ... | 1 | 20 | Calais ... ... | ... | 5 |
| Hamburg ... ... | 12 | 124 | Harlingen ... ... | 1 | .. |
| Riga ... ... | 1 | 7 | Nantes ... .. | ... | 3 |
| Rotterdam ... | 4 | 76 | Libau ... ... | ... | 1 |
| Harburg ... ... | 3 | 2 | Kiel ... ... | ... | 1 |
| Bjomiberg... ... | 1 | ... | St. Petersburg ... | ... | 2 |
| Caen ... ... | ... | 3 | Zaandam ... ... | ... | 3 |
| Dunkirk ... ... | 2 | 17 | Ostend ... ... | 1 | 1 |
| Stettin ... ... | ... | 4 | Rochelle ... ... | 1 | ... |
| Dieppe ... ... | ... | 5 | Cherburg ... ... | ... | 1 |
| Dantzic ... .. | 2 | 1 | Bremen ... ... | ... | 1 |
| Tonning ... ... | ... | 1 | Ghent . ... | ... | 2 |
| Flushing ... ... | 2 | 1 | St. Nazaire ... | .. | 4 |
| Amsterdam ... | ... | 15 | St. Malo ... ... | ... | 1 |
| Schiedam ... ... | 1 | ... | Ibrail ... ... | ... | 1 |
| Dordt ... ... | 3 | 5 | Sulina ... ... | ... | 1 |
| Antwerp ... ... | 3 | 14 | Zerickzee ... ... | 2 | ... |
| Terneuzen... ... | ... | 4 | Flensburg ... ... | ... | 2 |
| Cronstadt ... ... | ... | 4 | Honfleur ... ... | ... | 1 |
| Havre ... ... | ... | 17 | Gothenburg ... | . | 1 |
| Boulogne ... ... | ... | 3 | Fecamp ... ... | ... | 1 |
| Rovisa ... ... | ... | 1 | | | |
| *Carried forward* ... | 35 | 324 | Total ... | 40 | 356 |